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1 [An architecture for secure wide-area service discovery](#)

[Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Ra](#)
March 2002 **Wireless Networks**, Volume 8 Issue 2/3

Publisher: Kluwer Academic Publishers

Full text available: [Pdf](#) (365.68 KB)

Additional Information: [full citation](#), [abstra](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 75, Downlo

The widespread deployment of inexpensive communications technology networking infrastructure, and network-enabled end devices poses an ir locate a particular network service or device ...

Keywords: location services, name lookup, network protocols, service

2 [Fast authentication methods for handovers between IEEE 802.11 wi](#)

[M. S. Barch, R. J. Hulsebosch, E. H. Eertink, A. Prasad, H. Wang, P. Schoo](#)
October 2004 **WMASH '04: Proceedings of the 2nd ACM international work**
services on WLAN hotspots

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (257.82 KB)

Additional Information: [full citation](#), [abstra](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 168, Downl

Improving authentication delay is a key issue for achieving seamless ha This paper presents an overview of fast authentication methods when r Wireless-LANs. Besides this overview, ...

Keywords: WLAN, authentication, handover, inter/intra-domain, seaml

3 [SAKM: a scalable and adaptive key management approach for multi](#)

[Yacine Challal, Hatem Bettahar, Abdelmadjid Bouabdallah](#)
April 2004 **SIGCOMM Computer Communication Review**, Volume 34 Iss

Publisher: ACM

Full text available: [Pdf](#) (480.59 KB)

Additional Information: [full citation](#), [abstra](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 23, Downloa

Multicasting is increasingly used as an efficient communication mechani

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Internet. In order to offer secrecy for multicast applications, the traffic is encrypted whenever a user joins or leaves ...

Keywords: Multicast, key management, scalability, security

4 Secure compilation of a multi-tier web language

 Ioannis G. Baltopoulos, Andrew D. Gordon

January 2009 **TLDI '09: Proceedings of the 4th international workshop on TLDI** implementation

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (552.84 KB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 76, Downloads (All Time): 117

Storing state in the client tier (in forms or cookies, for example) improves performance but it also renders the secrecy and integrity of stored data vulnerable to a general problem in the context ...

Keywords: compilers, cryptography, integrity, type systems, web applications

5 On-board credentials with open provisioning

 Kari Kostiaainen, Jan-Erik Ekberg, N. Asokan, Aarne Rantala

March 2009 **ASI ACCS '09: Proceedings of the 4th International Symposium on ASI ACCS** Communications Security

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (1.17 MB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 144, Downloads (All Time): 211

Securely storing and using credentials is critical for ensuring the security of applications. Existing approaches to address this problem fall short. Use of hardware is secure and cheap, but they suffer from bad ...

Keywords: credentials, provisioning protocols, secure hardware, trust

6 Offering data confidentiality for multimedia overlay multicast: Design

 Wai-Pun Ken Yiu, Shueng-Han Gary Chan

November 2008 **Transactions on Multimedia Computing, Communications, and Applications** Volume 5 Issue 2




Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (301.89 KB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 117, Downloads (All Time): 123




Application layer multicast (ALM) has been proposed to overcome current limitations of group multimedia communication. We address offering data confidentiality for ALM, a node may need to continuously ...

Keywords: Key management, multicast security, overlay multicast, peer-to-peer

-  [DSPs, BRAMs, and a Pinch of Logic: Extended Recipes for AES on](#)
[Saar Drimer, Tim Güneysu, Christof Paar](#)
 January 2010 **Transactions on Reconfigurable Technology and System**
Publisher: ACM  [Request Permissions](#)
 Full text available:  Pdf (324.88 KB) Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 110, Downloads (24 Months): 110



We present three lookup-table-based AES implementations that efficiently are embedded within Xilinx Virtex-5 FPGAs. An iterative module outputs a 3 cycle, with a throughput of 1.67 Gbit/s when ...

Keywords: AES, CMAC, CTR, DSP blocks, FPGA, Virtex-5

- 8 [Trust management for secure information flows](#)
 [Mudhakar Srivatsa, Shane Balfe, Kenneth G. Paterson, Pankaj Rohatgi](#)
 October 2008 **CCS '08: Proceedings of the 15th ACM conference on Computer and Communications Security**
Publisher: ACM  [Request Permissions](#)
 Full text available:  Pdf (1.03 MB) Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 329, Downloads (24 Months): 329

In both the commercial and defence sectors a compelling need is emerging for a new paradigm of information management across traditional organisational boundaries. This paper presents a new management paradigm for securing pan-organisational ...



Keywords: ID-PKC, information flow, risk, trust





- 9 [Design and Implementation of the AEGIS Single-Chip Secure Processor](#)
 [G. Edward Suh, Charles W. O'Donnell, Ishan Sachdev, Srinivas Devadas](#)
 June 2005 **ISCA '05: Proceedings of the 32nd annual international symposium on Computer Architecture**
Publisher: ACM
 Full text available:  Pdf (288.96 KB) Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 102, Downloads (24 Months): 102

Secure processors enable new applications by ensuring private and authentic communication in the face of physical attack. In this paper we present the AEGIS secure processor implementation on FPGAs. By using ...

Also published in:

May 2005 **SIGARCH Computer Architecture News** Volume 33 Issue 2

- 10 [Overshadow: a virtualization-based approach to retrofitting protection](#)
 [Xiaoxin Chen, Tal Garfinkel, E. Christopher Lewis, Pratap Subrahmanyam, Dan Dowskin, Dan R.K. Ports](#)
 March 2008 **ASPLOS XIII: Proceedings of the 13th international conference on Architectural Support for Programming Languages and Operating Systems**
Publisher: ACM  [Request Permissions](#)

Full text available:  [Avi \(27:48 MIN\)](#),  [Flv \(27:0 MIN\)](#),  [Mp3 \(27:49 MIN\)](#),  [Pdf \(2](#)

Bibliometrics: Downloads (6 Weeks): 54, Downloads (12 Months): 360, Downl


Commodity operating systems entrusted with securing sensitive data ar consequently, frequently prone to compromise. To address this limitatio system called Overshadow that protects ...

Keywords: VMM, cloaking, hypervisors, memory protection, multi-shac machine monitors

Also published in:

March 2008 **SIGARCH Computer Architecture News** Volume 36 Issue 1
 March 2008 **SIGOPS Operating Systems Review** Volume 42 Issue 2
 March 2008 **SIGPLAN Notices** Volume 43 Issue 3

11 [A secure multicast protocol with copyright protection](#)

 [Hao-hua Chu, Lintian Qiao, Klara Nahrstedt, Hua Wang, Ritesh Jain](#)

April 2002 **SIGCOMM Computer Communication Review**, Volume 32 Iss

Publisher: ACM

Full text available:  [Pdf \(301.97 KB\)](#)


Additional Information: [full citation](#), [abstra](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 74, Downloa

We present a simple, efficient, and secure multicast protocol with copyr network environment. There is a wide variety of multimedia applications: multicast protocol, e.g., the ...

Keywords: copyright protection, key distribution, multicast security, w

12 [Architecture for Protecting Critical Secrets in Microprocessors](#)

 [Ruby B. Lee, Peter C. S. Kwan, John P. McGregor, Jeffrey Dvoskin, Zhengh](#)
 June 2005 **ISCA '05: Proceedings of the 32nd annual international symp**

Publisher: ACM

Full text available:  [Pdf \(143.62 KB\)](#)

Additional Information: [full citation](#), [abstra](#)


Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 102, Downl

We propose "secret-protected (SP)" architecture to enable secure and c for a given user in an on-line environment. Keys are examples of critica management is a fundamental problem ...

Also published in:

May 2005 **SIGARCH Computer Architecture News** Volume 33 Issue 2

13 [Implementing an untrusted operating system on trusted hardware](#)

 [David Lie, Chandramohan A. Thekkath, Mark Horowitz](#)

December 2003 **SOSP '03: Proceedings of the nineteenth ACM symposium**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf \(280.87 KB\)](#)

Additional Information: [full citation](#), [abstra](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 134, Downl

Recently, there has been considerable interest in providing "trusted computing" ~ TCPA and Palladium being the most publicly visible examples. In this paper, we are building such a platform using a traditional ...

Keywords: XOM, XOMOS, untrusted operating systems

Also published in:

December 2003 **SIGOPS Operating Systems Review** Volume 37 Issue 5

14 [Answering aggregation queries in a secure system model](#)

[Tingjian Ge](#), [Stan Zdonik](#)

September 2007 **VLDB '07: Proceedings of the 33rd international conference**

Publisher: VLDB Endowment

Full text available:  [Pdf](#) (321.62 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 100, Downloads (24 Months): 100

As more sensitive data is captured in electronic form, security becomes a major concern. Encryption is the main technique for achieving security. While in the past, it was not possible to implement database encryption because of the ...

15 [LISP: A lightweight security protocol for wireless sensor networks](#)

 [Taejoon Park](#), [Kang G. Shin](#)

August 2004 **Transactions on Embedded Computing Systems (TECS)**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (487.54 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 190, Downloads (24 Months): 190

Small low-cost sensor devices with limited resources are being used in wireless sensor network for various applications, such as situation monitoring and asset tracking. A secure network is crucial to their ...

Keywords: Authentication, key management, lightweight security, sensor networks

16 [Role-based access control on the web](#)

 [Joon S. Park](#), [Ravi Sandhu](#), [Gail-Joon Ahn](#)

February 2001 **Transactions on Information and System Security (TISSEC)**

Publisher: ACM  [Request Permissions](#)




Full text available:  [Pdf](#) (331.03 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 29, Downloads (12 Months): 324, Downloads (24 Months): 324




Current approaches to access control on the Web servers do not scale to large numbers of users. They are mostly based on individual user identities. Hence we were motivated to design a strong and efficient RBAC access control ...

Keywords: WWW security, cookies, digital certificates, role-based access control

-  [A type discipline for authorization policies](#)
 Cédric Fournet, Andrew D. Gordon, Sergio Maffei
 August 2007 **Transactions on Programming Languages and Systems** (TPLS)
Publisher: ACM  [Request Permissions](#)
 Full text available:  Pdf (266.20 KB) Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 55, Downloads (24 Months): 116

Distributed systems and applications are often expected to enforce high security. The code for these systems relies on lower-level security mechanisms such as encrypted communications. ...

Keywords: Authorization, process calculus, spi calculus, type systems


- 18** [Cryptographically sound implementations for typed information-flow : type systems](#)
 Cédric Fournet, Tamara Rezk
 January 2008 **POPL '08: Proceedings of the 35th annual ACM SIGPLAN-SIGPLAN programming languages**
Publisher: ACM  [Request Permissions](#)
 Full text available:  Pdf (301.13 KB) Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 116, Downloads (24 Months): 232

In language-based security, confidentiality and integrity policies constrain the flow of information between different parts of a program with diverse levels of security. The treatment of security, and they ...

Keywords: compilers, computational model, confidentiality, cryptographic, probabilistic programs, secure information flow, type systems


Also published in:

January 2008 **SIGPLAN Notices** Volume 43 Issue 1

- 19** [Securing publish/subscribe for multi-domain systems](#)
 Jean Bacon, David Ebers, Ken Moody, Lauri Pesonen
 November 2005 **Middleware '05: Proceedings of the ACM/IFIP/USENIX 2005 Middleware**
Publisher: Springer-Verlag New York, Inc.
 Full text available:  Pdf (480.13 KB) Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 59, Downloads (24 Months): 116

Two convincing paradigms have emerged for achieving scalability in wide-area policy-driven control of access to the system by applications and for system **publish/subscribe communication** ...

Keywords: attribute encryption, content-based routing, loosely coupled publish/subscribe, role-based access control, trust

- 20** [Neon: system support for derived data management](#)
 Qing Zhang, John McCullough, Justin Ma, Nabil Schear, Michael Vrabie, Amr

[Voelker, Stefan Savage](#)

March 2010 **VEE '10**: Proceedings of the 6th ACM SIGPLAN/SIGOPS intern
environments

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (466.05 KB)

[Additional Information: full citation, abstra](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 68, Downlo

Modern organizations face increasingly complex information manageme
commercial needs, legal liability and regulatory imperatives has created
Among these, personally identifying customer ...

Keywords: difc, memory tainting, qemu, virtualization, xen

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